



The ISF® Process for Gas & Steam Turbines

Increase Efficiency and Longevity

Why the ISF Surface?

Typical steam or gas turbines face exceptionally high performance demands on components such as gears and airfoils. Gears typically operate in high speed, high cycle applications, thereby making them susceptible to dynamic fatigue. Airfoils that are belted manually have low throughput and inconsistent quality. Abrasively tumbled components suffer from excessive tip radiusing and geometric alteration.

REM's ISF Process solves these problems for steam and gas turbines. The ISF Process eliminates the need for hand polishing or abrasive tumbling, producing more consistent results and lower surface roughness for increased efficiency and increased resistance to bending fatigue/stress corrosion cracking.



The ISF process has been proven to increase efficiency and resistance to dynamic fatigue through reductions in friction, removal of failure initiation sites, and increases in load distribution.

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Performance Benefits

Turbines:

- Improve Durability
- Increase Bending Fatigue Resistance
- Increase Stress Corrosion Cracking Resistance
- Increase Airfoil Operational Cleanliness
- Reduce Warranty/Maintenance Costs
- Reduce Air Resistance/Turbulence

Gears:

- Improve Durability
- Increase Resistance to Contact & Bending Fatigue
- Reduce Lubrication Requirements & Costs
- Reduce Warranty/Maintenance Costs
- Eliminate Component Break-in
- Recycle Used Gears via Refurbishment

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REM QMS is certified to ISO 9001:2015 and AS9100:2016 Rev D

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